

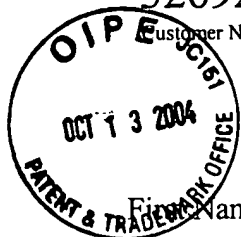
AFW

Patent

Case No.: 56873US002

32692

Customer Number



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: McCULLOUGH, COLIN

Application No.: 10/779438

Group Art Unit: 1775

Filed: February 13, 2004

Examiner: Jason Savage

Title: METAL-CLADDED METAL MATRIX COMPOSITE WIRE

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

October 11, 2004
Date

[Signature]
Signed by: Angie Zontelli

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner.

Copies of any cited foreign patents, foreign publications, non-patent literature documents; and any pending U.S. applications filed before June 30, 2003, are enclosed. Copies of any pending U.S. applications filed after June 30, 2003 that can be accessed on the USPTO's IFW system are not enclosed as per USPTO Waiver dated September 21, 2004. Copies of any U.S. patents and published U.S. patent applications are not enclosed.

It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

Further, for purposes of examining the present application, Applicants hereby inform the Examiner that the cladding operations performed by BWE Ltd. of 3M's request as described in the working examples was done more than one year prior to the filing of this patent application.

These cladding operations were requested by 3M under the enclosed Purchase Orders (dates redacted) pursuant to the attached "General Supplier and Patent Agreement" dated May 6, 1997.

3M paid BWE \$30,000 for the cladding operations of Example 1, and \$25,000 for the cladding operations of Example 2.


If a first Office Action on the merits has been mailed prior to the mailing date of this document, please charge the fee for consideration of an Information Disclosure Statement set forth in 37 CFR § 1.17(p), and if necessary, please charge any additional fees, or credit any overpayment to Deposit Account No. 13-3723.

Respectfully submitted,

Date

October 8, 2004

By:


Gregory D. Allen, Reg. No.: 35,048
Telephone No.: (651) 736-0641

Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Filing Date

February 13, 2004

First Named Inventor

McCullough, Colin

Art Unit

1775

Examiner Name

Jason Savage

Attorney Case Number

56873US002

Use as many sheets as necessary)

Page 1 of 4

U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
	A1	US- 32,385	05-21-1861	L.H. Smith	
	A2	US- 32,399	05-21-1861	E.F. Hurlbut	
	A3	US- 4,217,852	08-19-1980	Nagai et al.	
	A4	US- 4,242,368	12-30-1980	Nagai et al.	
	A5	US- 3,429,722	07-12-1969	J. Economy et al.	
	A6	US- 3,795,524	03-05-1974	H.G. Sowman	
	A7	US- 4,047,965	09-13-1977	Karst et al.	
	A8	US- 5,093,880	03-03-1992	Matsuda et al.	
	A9	US- 5,335,527	08-09-1994	Nagai et al.	
	A10	US- 5,780,154	07-14-1998	Okano et al.	
	A11	US- 5,822,484	10-13-1998	Arroyo	
	A12	US- 6,180,232 B1	01-30-2001	McCullough et al.	
	A13	US- 6,245,425 B1	06-12-2001	McCullough et al.	
	A14	US- 6,329,056 B1	12-11-2001	Deve et al.	
	A15	US- 6,336,495 B1	01-08-2002	McCullough et al.	
	A16	US- 6,344,270 B1	02-05-2002	McCullough et al.	
	A17	US- 6,447,927 B1	09-10-2002	McCullough et al.	
	A18	US- 6,460,597 B1	10-08-2002	McCullough et al.	
	A19	US- 6,485,796 B1	11-26-2002	Carpenter et al.	
	A20	US- 6,544,645 B1	04-08-2003	McCullough et al.	
	A21	US- 6,559,385 B1	05-06-2003	Johnson et al.	
	A22	US- 6,723,451 B1	04-20-2004	McCullough et al.	
	A23	US- 2003/0029902 A1	02-13-2003	Blucher	
	A24	US- 2004/0026112 A1	02-12-2004	Goldsworthy et al.	
	A25	US-			

*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 2 of 4	Application Number	10/779438
	Filing Date	February 13, 2004
	First Named Inventor	McCullough, Colin
	Art Unit	1775
	Examiner Name	Jason Savage
	Attorney Case Number	56873US002

Foreign Patent Documents							
Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
	B1	DE	3403046	03-14-1985			Derwent Abstract
	B2	DE	159611	03-23-1983			Derwent Abstract
	B3	EP	0 172 563 A2	02-26-1986			
	B4	EP	0 202 953 A2	11-26-1986			
	B5	GB	1370894	10-16-1974			
	B6	GB	1584131	02-04-1981			
	B7	GB	2 177 948 A	02-04-1987			
	B8	GB	2 274 795 A	08-10-1994			
	B9	GB	2 326 121 A	12-16-1998			
	B10	HU	9602005	04-28-1998			Derwent Abstract
	B11	JP	59-11366	03-15-1984			Derwent Abstract
	B12	JP	60-137520	07-22-1985			Derwent and JAPIO Abstracts
	B13	JP	61-170502	08-01-1986			Derwent and JAPIO Abstracts
	B14	JP	61-296607	12-27-1986			Derwent and JAPIO Abstracts
	B15	JP	63-230220	09-26-1988			Derwent and JAPIO Abstracts
	B16	JP	63-245811	10-12-1988			Derwent and JAPIO Abstracts
	B17	JP	1-119606	05-11-1989			Derwent and JAPIO Abstracts

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		Ctry. Code	Number-KindCode (If known)				
	B18	JP	1-241323	09-26-1989			JAPIO Abstract
	B19	JP	3-485	01-07-1991			Derwent Abstract
	B20	JP	3-129606	06-03-1991			X
	B21	JP	3-55531	08-23-1991			Derwent Abstract
	B22	JP	3-74008	03-28-1991			X
	B23	JP	3-71509	03-27-1991			X
	B24	JP	4-44366	07-21-1992			X
	B25	JP	5-236274	09-14-1977			X
	B26	JP	5-23001	03-31-1993			Derwent & JAPIO Abstract
	B27	JP	6-187851	07-08-1994			X
	B28	JP	6-238523	08-30-1994			Derwent Abstract
	B29	JP	62-86606	04-21-1987			X
	B30	JP	8-306246	11-22-1996			X
	B31	JP	9-147646	06-06-1997			Derwent & JAPIO Abstract
	B32	JP	9-245527	09-19-1997			Derwent & JAPIO Abstract
	B33	JP	10-201066	07-31-1998			Derwent & JAPIO Abstract
	B34	JP	10-237673	08-09-1998			Derwent & JAPIO Abstract
	B35	JP	10-241459	09-11-1998			Derwent & JAPIO Abstract
	B36	WO	96/32211	10-17-1996			
	B37	WO	02/06550 A1	01-24-2002			
	B38	WO	03/091008 A1	11-06-2003			

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OTHER DOCUMENTS			
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1	LITERATURE: "1995 The Electricity Society National Symposium – Mechanical Characteristics of SiC Fiber Reinforced Aluminum Composite Material", Ozawa et al., 2 pages, English translation.	
	C2	LITERATURE: "1995 The Electricity Society Electronics and Energy Department Symposium – Development and Evaluation Characteristics of SiC Fiber Reinforced Aluminum Composite Wires for Transmission Line", 9 pages, English translation	
	C3	NASA Publication N96-17095, Tokarsky, et al., "Metal Clad Aramid Fibers for Aerospace Wire and Cable", National Aeronautics and Space Administration, Cleveland, OH, Lewis Research Center, Third NASA Workshop on Wiring for Space Applications, July 18-19, 1995, pp. 197-210	
	C4	McCullough et al., "MAKING METAL CLADDED METAL MATRIX COMPOSITE WIRE", Application No. 10/778,488, Filed 02-13-2004 (Attorney Docket No. 56864US002)	

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